

**Abstract****Device for Measurement of Rotational Angle**

A device for measuring the rotational angle of two components that can be rotated relative to each other has a shaft that can be securely coupled to the first component, and coaxially houses a light source and a materialized measure through which the light source shines. A sensing device can be securely coupled to the second component. The interior measure has an angular lattice structure and the sensing device has a coaxially arranged circular track of optical sensor elements, by means of which incremental angle measurement is possible. At least one marker element is also provided on the materialized measure that influences the sensor element corresponding to its absolute angle position. The sensor elements can be electronically polled individually in order to determine the absolute angle position.